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(1)	54	DECLARATIONS
(1)	91	CONDITION TABLES
(1)	118	TM SETUP, TM CLEANUP
(1)	185	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	255	FORM CONDS
(1)	348	VERIFY
(1)	454	VFY_CLEANUP

0000 1 .TITLE SATSSS44 SATS SYSTEM SERVICE TESTS \$SETPRN (SUCC S.C.)
0000 2 .IDENT 'V04-000'
0000 3
0000 4 :
0000 5 :*****
0000 6 :*
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0000 25 :*
0000 26 :*****
0000 27 :
0000 28 :
0000 29 :++
0000 30 :FACILITY: SYSTST (SATS SYSTEM SERVICE TESTS)
0000 31 :
0000 32 :ABSTRACT:
0000 33 :
0000 34 : THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED
0000 35 : WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS44 TO TEST SUCCESSFUL
0000 36 : OPERATION OF THE \$SETPRN SYSTEM SERVICE. THE SERVICE IS INVOKED
0000 37 : UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY
0000 38 : SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT
0000 39 : OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY
0000 40 : CHECKING FOR AN SSS NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS
0000 41 : AND EXPECTED FUNCTIONALITY PERFORMED.
0000 42 :
0000 43 :ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000 44 : DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 45 :
0000 46 :AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: JUN, 1977
0000 47 :
0000 48 :MODIFIED BY:
0000 49 :
0000 50 : : VERSION
0000 51 : 01 :
0000 52 :--

0000 54 .SBTTL DECLARATIONS
0000 55 :
0000 56 : INCLUDE FILES:
0000 57 :
0000 58 : \$PRVDEF : PRIVILEGE BIT DEFINITIONS
0000 59 : \$PHDDEF : PROCESS HEADER OFFSETS
0000 60 :
0000 61 : MACROS:
0000 62 :
0000 63 :
0000 64 : EQUATED SYMBOLS:
0000 65 :
0000 66 :
0000 67 : OWN STORAGE:
0000 68 :

00000000	70	.PSECT RODATA,RD,NOWRT,NOEXE,LONG	
0000	71	TEST_MOD_NAME:: STRING C,<SATSSS44>	: TEST MODULE NAME
0009	72	TEST_MOD_NAME_D: STRING I,<SATSSS44>	: TEST MODULE NAME DESCRIPTOR
0019	73	MSG1_INP_CTL: STRING I,< SSSPN!4ZW: CONDITIONS:>	
0039	74		FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
0039	75	MSG3_ERR_CTL:: STRING I,< *SSSPN!4ZW: !AS>	
0051	76		FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
00000004	0051	77 PREVNAME: .LONG 4	: PREVIOUS PROCESS NAME STRING DESCRIPTOR
00000008	0055	78 .ADDRESS THISPID	:..... (USE PID TO MAKE PRCNAM UNIQUE)
00000001	0059	79 CHAR1: .LONG 1	:PROCESS NAME STRING DESCRIPTOR (LENGTH 1)
0000000C	005D	80 .ADDRESS PROCNAME	
00000007	0061	81 CHAR7: .LONG 7	:PROCESS NAME STRING DESCRIPTOR (LENGTH 7)
0000000C	0065	82 .ADDRESS PROCNAME	
0000000F	0069	83 CHAR15: .LONG 15	:PROCESS NAME STRING DESCRIPTOR (LENGTH 15)
0000000C	006D	84 .ADDRESS PROCNAME

SATSSS44
V04-000

J 8
SATS SYSTEM SERVICE TESTS \$SETPRN (SUCC 16-SEP-1984 00:55:01 VAX/VMS Macro V04-00 Page 4
DECLARATIONS 5-SEP-1984 04:31:36 [UETPSY.SRC]SATSSS44.MAR;1 (1)

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00000000	86	PSECT	RWDATA,RD,WRT,NOEXE,LONG	
00000008	0000	87 PRIVMASK:	.BLKQ 1	: ADDR OF PRIVILEGE MASK (IN PHD)
00000000	0008	88 THISPID:	.LONG 0	: PROCESS ID FOR THIS PROCESS
0000001B	000C	89 PROCNAME:	.BLKB 15	: PROCESS NAME FOR THIS PROCESS

001B 91 : .SBTTL CONDITION TABLES
001B 92 :
001B 93 : ***** CONDITION TABLES FOR SETPRN SYSTEM SERVICE *****
001B 94 :
001B 95 : COND 1,NOTARG,<PROCESS NAME SPECIFICATION>,-
001B 96 : <SPECIFIED, 1 CHAR>,-
001B 97 : <SPECIFIED, 7 CHARS>,-
001B 98 : <SPECIFIED, 15 CHARS>,-
001B 99 : <NOT SPECIFIED>,-
001B 100 :
00000059' 008E 101 : .ADDRESS CHAR1
00000061' 0092 102 : .ADDRESS CHAR7
00000069' 0096 103 : .ADDRESS CHAR15
00000000' 009A 104 : .ADDRESS 0
009E 105 :
009E 106 : COND 2,NOTARG,<PROCESS NAME EXISTENCE>,-
009E 107 : <NAME PREVIOUSLY EXISTED>,-
009E 108 : <NAME DID NOT EXIST PREVIOUSLY>,-
009E 109 :
00F4 110 : COND 3,NULL
00F5 111 : COND 4,NULL
00F5 112 :
00F6 113 : COND 5,NULL
00F6 114 :
00F7 115 :
00000000 116 : .PSECT SATSSS44,RD,WRT,EXE

```

0000 118 .SBTTL TM_SETUP, TM_CLEANUP
0000 119 ++
0000 120 :+ FUNCTIONAL DESCRIPTION:
0000 121
0000 122 TM SETUP AND TM CLEANUP ARE CALLED TO PERFORM
0000 123 REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
0000 124 TEST MODULE EXECUTION.
0000 125
0000 126 CALLING SEQUENCE:
0000 127
0000 128 BSBW TM_SETUP BSBW TM_CLEANUP
0000 129
0000 130 INPUT PARAMETERS:
0000 131
0000 132 NONE
0000 133
0000 134 IMPLICIT INPUTS:
0000 135
0000 136 NONE
0000 137
0000 138 OUTPUT PARAMETERS:
0000 139
0000 140 NONE
0000 141
0000 142 IMPLICIT OUTPUTS:
0000 143
0000 144 TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
0000 145 ALL PRIVILEGES ACQUIRED.
0000 146
0000 147 COMPLETION CODES:
0000 148 EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0000 149
0000 150
0000 151 SIDE EFFECTS:
0000 152
0000 153 SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0000 154 (VIA RSB) IF ERROR ENCOUNTERED.
0000 155
0000 156 :--+
0000 157
0000 158
0000 159
0000 160 TM_SETUP::          : INITIALIZE
52  D4 0000 161 CLRL    R2          : .. CONDITION
53  D4 0002 162 CLRL    R3          : .... TABLE
54  D4 0004 163 CLRL    R4          : ..... INDEX
55  D4 0006 164 CLRL    R5          : ..... REGISTERS
56  D4 0008 165 CLRL    R6          : PRINT TEST MODULE BEGIN MSG
FFF3' 30 000A 166 BSBW    MOD_MSG_PRINT : ASSUME END MSG WILL SHOW SUCCESS
00000000'EF 0000 000D 167 MOVAL   TEST_MOD_SUCC_TMD_ADDR ; #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
03 00 00000000'EF DE 0018 168 INSV    #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
00000000'EF 0020
00000000'EF 0025 169 MODE    TO,5$,KRNL : KERNEL MODE TO ACCESS PHD
59 00000000'9F DO 0048 170 MOVL    @#CTL$GL_PHD,R9 : GET PROCESS HEADER ADDRESS
00000000'EF 69  DE 004F 171 MOVAL   PHDSQ_PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
00056 0056 172 MODE    FROM,5$ ; BACK TO USER MODE
00057 0057 173 PRIV    ADD,ALL ; GET ALL PRIVILEGES

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SATSSS44
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M 8
SATS SYSTEM SERVICE TESTS \$SETPRN (SUCC 16-SEP-1984 00:55:01 VAX/VMS Macro V04-00
TM_SETUP, TM_CLEANUP 5-SEP-1984 04:31:36 [UETPSY.SRC]SATSSS44.MAR;1 Page 7 (1)

0077	174	\$SETPRN_S TEST MOD_NAME_D	: SET PROCESS NAME
0084	175	SS_CHECK NORMAL	: CHECK STATUS CODE RETURNED FROM SETPRN
00B2	176	SWAKE S THISPID	: GET 'MY' PID FOR LATER USE
00C1	177	SS_CHECK NORMAL	: CHECK NORMAL RETURN
00EF	178	\$HIBER S	: UNDO WAKE
00F6	179	SS_CHECK NORMAL	: CHECK NORMAL RETURN
05	0124	RSB	: RETURN TO MAIN ROUTINE
FED8'	30	0125 181 TM_CLEANUP::	
	05	0128 182 RSB	: PRINT TEST MODULE END MSG
		0SBW MOD_MSG_PRINT	: RETURN TO MAIN ROUTINE

0129 185 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
0129 186 ++
0129 187 : FUNCTIONAL DESCRIPTION:
0129 188
0129 189 CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
0129 190 BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
0129 191 CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
0129 192 ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
0129 193 CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEARED
0129 194 UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES,
0129 195 ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
0129 196 OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
0129 197 VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
0129 198 (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
0129 199
0129 200 : CALLING SEQUENCE:
0129 201
0129 202 BSBW CONDX BSBW CONDX_CLEANUP
0129 203 WHERE X = 1,2,3,4,5
0129 204
0129 205 : INPUT PARAMETERS:
0129 206
0129 207 CONFLICT = 0
0129 208
0129 209 : IMPLICIT INPUTS:
0129 210
0129 211 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0129 212 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0129 213
0129 214 : OUTPUT PARAMETERS:
0129 215
0129 216 CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
0129 217
0129 218 : IMPLICIT OUTPUTS:
0129 219
0129 220 R2,3,4,5,6 PRESERVED
0129 221
0129 222 : COMPLETION CODES:
0129 223
0129 224 NONE
0129 225
0129 226 : SIDE EFFECTS:
0129 227
0129 228 NONE
0129 229
0129 230 :--
0129 231
0129 232
0129 233
0129 234 COND1::
05 0129 235 RSB : RETURN TO MAIN ROUTINE
012A 236 COND1_CLEANUP::
05 012A 237 RSB : RETURN TO MAIN ROUTINE
012B 238 COND2::
05 012B 239 RSB : RETURN TO MAIN ROUTINE
012C 240 COND2_CLEANUP::
05 012C 241 RSB : RETURN TO MAIN ROUTINE

```
012D 242 COND3::  
05 012D 243 RSB ; RETURN TO MAIN ROUTINE  
012E 244 COND3_CLEANUP::  
05 012E 245 RSB ; RETURN TO MAIN ROUTINE  
012F 246 COND4::  
05 012F 247 RSB ; RETURN TO MAIN ROUTINE  
0130 248 COND4_CLEANUP::  
05 0130 249 RSB ; RETURN TO MAIN ROUTINE  
0131 250 COND5::  
05 0131 251 RSB ; RETURN TO MAIN ROUTINE  
0132 252 COND5_CLEANUP::  
05 0132 253 RSB ; RETURN TO MAIN ROUTINE
```

0133 255 .SBTTL FORM_CONDS
 0133 256 ++
 0133 257 FUNCTIONAL DESCRIPTION:
 0133 258 FORM CONDS FORMATS AND PRINTS INFORMATION ABOUT
 0133 259 THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
 0133 260
 0133 261 CALLING SEQUENCE:
 0133 262 BSBW FORM_CONDS
 0133 263
 0133 264 INPUT PARAMETERS:
 0133 265
 0133 266
 0133 267
 0133 268
 0133 269
 0133 270
 0133 271 IMPLICIT INPUTS:
 0133 272 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
 0133 273 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
 0133 274 FOR X = 1,2,3,4,5 :
 0133 275 CONDX_T - TITLE TEXT FOR CONDX TABLE
 0133 276 CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE
 0133 277 CONDX_C - CONTEXT OF THE CONDX TABLE
 0133 278 CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
 0133 279
 0133 280 OUTPUT PARAMETERS:
 0133 281
 0133 282
 0133 283
 0133 284 IMPLICIT OUTPUTS:
 0133 285
 0133 286
 0133 287
 0133 288 COMPLETION CODES:
 0133 289
 0133 290
 0133 291
 0133 292 SIDE EFFECTS:
 0133 293
 0133 294
 0133 295
 0133 296 --
 0133 297
 0133 298
 0133 299
 0133 300 FORM_CONDS:::
 0133 301 \$FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM : FORMAT CONDITIONS HEADER MSG
 0133 302
 14 FEAB' 30 0152 302 : AND PRINT IT
 00 91 0152 303 BSBW OUTPUT_MSG
 03 12 0155 304 CMPB #COND1_C,#NULL : IS CONDITION 1 NULL ?
 00BF 31 0158 305 BNEQU 10\$: NO -- CONTINUE
 015A 306 BRW FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
 015D 307 10\$: MOVAL COND1_T,MSG_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
 00000000'EF 0000001B'EF DE 015D 308 MOVL COND1_TAB[R2],MSG_B : SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
 00000000'EF 00000037'EF42 DO 0168 309 MOVB #COND1_C,MSG_CTXT : SAVE CONDITION 1 CONTEXT FOR FAO
 00000000'EF 00 90 0174 310 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 ; GIVE COND 1 DATA VALUE TO FAO
 017B 311

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        FE82' 30 017B 312      BSBW  WRITE_MSG2          ; FORMAT AND WRITE CONDITION 1 MSG
14    00 91 017E 313      CMPB  #COND2_C,#NULL   ; IS CONDITION 2 NULL ?
          03 12 0181 314      BNEQU 20$              ; NO -- CONTINUE
        0096 31 0183 315      BRW   FORM_CONDSX       ; YES -- SUBROUTINE IS FINISHED
          0186 316      20$: MOVAL COND2_T,MSG_A          ; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF 0000009E'EF DE 0186 317      MOVL  COND2_T,A[R3],MSG_B  ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
00000000'EF 000000B6'EF43 DO 0191 318      MOVB  #COND2_C,MSG_CTXT_  ; SAVE CONDITION 2 CONTEXT FOR FAO
          00 90 019D 319      MOV_VAL COND2_C,[COND2_E[R3],MSG_DATA1] ; GIVE COND 2 DATA VALUE TO FAO
          FE59' 30 01A4 320      BSBW  WRITE_MSG2          ; FORMAT AND WRITE CONDITION 2 MSG
14    14 91 01A7 321      CMPB  #COND3_C,#NULL   ; IS CONDITION 3 NULL ?
          03 12 01AA 323      BNEQU 30$              ; NO -- CONTINUE
        006D 31 01AC 324      BRW   FORM_CONDSX       ; YES -- SUBROUTINE IS FINISHED
          01AF 325      30$: MOVAL COND3_T,MSG_A          ; SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF 000000F4'EF DE 01AF 326      MOVL  COND3_T,A[R4],MSG_B  ; SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
00000000'EF 000000F4'EF44 DO 01BA 327      MOVB  #COND3_C,MSG_CTXT_  ; SAVE CONDITION 3 CONTEXT FOR FAO
          00000000'EF 14 90 01C6 328      MOV_VAL COND3_C,[COND3_E[R4],MSG_DATA1] ; GIVE COND 3 DATA VALUE TO FAO
          FE30' 30 01CD 329      BSBW  WRITE_MSG2          ; FORMAT AND WRITE CONDITION 3 MSG
14    14 91 01D0 331      CMPB  #COND4_C,#NULL   ; IS CONDITION 4 NULL ?
          47 13 01D3 332      BEQLU FORM_CONDSX       ; YES -- SUBROUTINE IS FINISHED
          00000000'EF 000000F5'EF DE 01D5 333      MOVAL COND4_T,MSG_A          ; SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
00000000'EF 000000F5'EF45 DO 01E0 334      MOVL  COND4_T,A[R5],MSG_B  ; SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
          00000000'EF 14 90 01EC 335      MOVB  #COND4_C,MSG_CTXT_  ; SAVE CONDITION 4 CONTEXT FOR FAO
          FEOA' 30 01F3 336      MOV_VAL COND4_C,[COND4_E[R5],MSG_DATA1] ; GIVE COND 4 DATA VALUE TO FAO
          14 14 91 01F6 337      BSBW  WRITE_MSG2          ; FORMAT AND WRITE CONDITION 4 MSG
          21 13 01F9 339      CMPB  #COND5_C,#NULL   ; IS CONDITION 5 NULL ?
          BEQLU FORM_CONDSX       ; YES -- SUBROUTINE IS FINISHED
          00000000'EF 000000F6'EF DE 01FB 340      MOVAL COND5_T,MSG_A          ; SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
00000000'EF 000000F6'EF46 DO 0206 341      MOVL  COND5_T,A[R6],MSG_B  ; SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
          00000000'EF 14 90 0212 342      MOVB  #COND5_C,MSG_CTXT_  ; SAVE CONDITION 5 CONTEXT FOR FAO
          FDE4' 30 0219 343      MOV_VAL COND5_C,[COND5_E[R6],MSG_DATA1] ; GIVE COND 5 DATA VALUE TO FAO
          021C 344      BSBW  WRITE_MSG2          ; FORMAT AND WRITE CONDITION 5 MSG
          05 021C 345      FORM_CONDSX:
          RSB           ; RETURN TO CALLER

```

021D 348 .SBTTL VERIFY
021D 349 ++
021D 350 : FUNCTIONAL DESCRIPTION:
021D 351 :
021D 352 : VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
021D 353 : TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
021D 354 : COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
021D 355 : SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE
021D 356 : (\$SETPRN). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
021D 357 : BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
021D 358 : AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
021D 359 : COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
021D 360 : ERR EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
021D 361 : THROUGH THE SS CHECK MACRO); ERR EXIT SETS EFLAG TO NON-ZERO,
021D 362 : PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
021D 363 : WHEN ERR EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
021D 364 : AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
021D 365 :
021D 366 : CALLING SEQUENCE:
021D 367 :
021D 368 : BSBW VERIFY
021D 369 :
021D 370 : INPUT PARAMETERS:
021D 371 :
021D 372 : NONE
021D 373 :
021D 374 : IMPLICIT INPUTS:
021D 375 :
021D 376 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
021D 377 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
021D 378 : FOR X = 1,2,3,4,5 :
021D 379 : CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
021D 380 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
021D 381 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
021D 382 : FOR CONDX_E.
021D 383 :
021D 384 : OUTPUT PARAMETERS:
021D 385 :
021D 386 : NONE
021D 387 :
021D 388 : IMPLICIT OUTPUTS:
021D 389 :
021D 390 : VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
021D 391 : IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
021D 392 : ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
021D 393 : AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
021D 394 : ERRORS.
021D 395 :
021D 396 : COMPLETION CODES:
021D 397 :
021D 398 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
021D 399 :
021D 400 : SIDE EFFECTS:
021D 401 :
021D 402 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
021D 403 : (VIA RSB) IF ERROR ENCOUNTERED.
021D 404 :

```

        021D 405 :--
        021D 406
        021D 407
        021D 408
        021D 409 VERIFY::: ; SHOULD CONDITIONS BE PRINTED ?
00000000'EF 95 021D 410 TSTB CFLAG ; NO -- CONTINUE
      03 13 0223 411 BEQL $S ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
FF0B 30 0225 412 BSBW FORM_CONDS
      0228 413 $$: ; MAKE PROCESS NAME UNIQUE FOR EACH T.C.
      53 D5 0233 414 MOVW TESTNUM,PROCNAME ; FIRST CONDITION 2 ELEMENT ?
      3D 12 0235 415 TSL R3 ; NO -- GO PROCESS 2ND ELEMENT
      0237 416 BNEQ 10$ ; YES -- ESTABLISH A 'PREVIOUS' NAME
      0244 417 $SETPRN_S PREVNAME ; ... AND CHECK COMPLETION
      37 11 0272 418 SS_CHECK NORMAL ; ... CONTINUE
      0274 419 BRB 20$ ; DELETE ANY POSSIBLE NAME
      0274 420 10$: ; ... CHECK IT
      0274 421 $SETPRN_S ; GET PRCNAM ADDRESS OUT OF TABLE
      027D 422 SS_CHECK NORMAL
      02AB 423 20$: ; ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
      58 0000008E'EF42 00 02AB 424 MOVL COND1_E[R2],R8 ; ISSUE SUBJECT SETPRN
      02B3 425 ; CODE RECEIVED = CODE EXPECTED ?
      02B3 426 :***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
      02B3 427 ; NO -- GO PROCESS ERROR
      00000000'8F 50 D1 02BC 428 $SETPRN_S (R8) ; YES -- CONTINUE
      03 12 02C3 429 CMPL R0,#$$$_NORMAL
      0061 31 02C5 430 BNEQU 23$ ; LOAD UP EXPECTED AND ...
      02C8 431 BRW 27$ ; ... RECEIVED VALUES, THEN EXIT
      00000000'EF 00000000'8F 00 02C8 432 23$: ; WAS PROCESS NAME SPECIFIED ?
      00000000'EF 50 DO 02D3 433 MOVL #$$$_NORMAL,EXPV ; NO -- GO DO SOME CHECKING
      02DA 434 MOVL R0,RECV
      0329 435 ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM SETPRN>
      58 D5 0329 436 27$: ; * IF FOLLOWING RESUME & SUSPND WORK TOGETHER, THEN PROCESS
      78 13 032B 437 TSL R8 ; * NAME WAS ESTABLISHED CORRECTLY.
      032D 438 BEQL 40$ ; * AND EXIT
      032D 439 :* ; RESUME USING PROCESS NAME
      032D 440 $RESUME S PRCNAM=(R8) ; AND CHECK RETURN
      0338 441 SS_CHECK NORMAL ; SUSPND THIS PROCESS USING PID
      0366 442 SS_SUSPND S THISPID ; ... CHECK RETURN
      0375 443 SS_CHECK NORMAL ; ... AND EXIT
      3D 11 03A3 444 BRB VERIFYX
      03A5 448 40$: ; PRCNAM SHOULD NOT EXIST
      03A5 449 $WAKE S PRCNAM=PREVNAME ; CHECK THAT IT DOESN'T
      03B4 450 SS_CHECK NONEXPR ; RETURN TO CALLER
      03E2 451 VERIFYX: RSB
      05 03E2 452

```

03E3 454 .SBTTL VFY_CLEANUP
03E3 455 :++
03E3 456 FUNCTIONAL DESCRIPTION:
03E3 457
03E3 458 VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
03E3 459 EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST
03E3 460 ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
03E3 461 ERROR IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERR_EXIT
03E3 462 ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
03E3 463 IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING,
03E3 464 WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
03E3 465 POSSIBLY DISCOVERING A SECOND ERROR.
03E3 466
03E3 467 CALLING SEQUENCE:
03E3 468 BSBW VFY_CLEANUP
03E3 470
03E3 471 INPUT PARAMETERS:
03E3 472
03E3 473 NONE
03E3 474
03E3 475 IMPLICIT INPUTS:
03E3 476
03E3 477 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
03E3 478 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
03E3 479 FOR X = 1,2,3,4,5 :
03E3 480 CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
03E3 481 TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
03E3 482 ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
03E3 483 FOR CONDX_E.
03E3 484
03E3 485 OUTPUT PARAMETERS:
03E3 486
03E3 487 NONE
03E3 488
03E3 489 IMPLICIT OUTPUTS:
03E3 490
03E3 491 NONE
03E3 492
03E3 493 COMPLETION CODES:
03E3 494
03E3 495 EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
03E3 496
03E3 497 SIDE EFFECTS:
03E3 498
03E3 499 SS CHECK AND ERR EXIT MACROS CAUSE PREMATURE EXIT
03E3 500 (VIA RSB) IF ERROR ENCOUNTERED.
03E3 501
03E3 502 --
03E3 503
03E3 504
03E3 505
03E3 506 VFY_CLEANUP::
05 03E3 507 RSB : RETURN TO CALLER
03E4 508 .END

\$\$\$\$	= 000002E4	R	04	FORM_CONDS	= 00000133	RG	04
\$\$\$CHARS	= 0000002A			FORM_CONDSX	= 0000021C	R	04
\$\$\$CHARS1	= 00000017			LONG	= 00000004	G	
\$\$\$CHARS2	= 0000001D			MOD_MSG_CODE	*****	X	04
\$\$\$CHARS3	= 00000000			MOD_MSG_PRINT	*****	X	04
\$\$\$CHARS4	= 00000000			MSGT_INP_CTL	00000019	R	02
\$\$\$CHARS5	= 00000000			MSG3_ERR_CTL	00000039	RG	02
\$\$\$COND_A	= 00000001			MSG_A	*****	X	04
\$\$\$STRINGS	= 00000001			MSG_B	*****	X	04
\$\$\$STRINGS2	= 00000005			MSG_CTXT	*****	X	04
\$\$T2	= 00000004			NOTARG	= 00000000	G	
BYTE	= 00000001	G		NULL	= 00000014	G	
CFLAG	*****	X	04	OUTPUT_MSG	*****	X	04
CHAR1	00000059	R	02	PCV	*****	X	04
CHAR15	00000069	R	02	PHDSQ_PRIVMSK	= 00000000		
CHAR7	00000061	R	02	PREVNNAME	00000051	R	02
CHMRTN	*****	X	04	PRIVMASK	00000000	R	03
CHM_CONT	*****	X	04	PRIV_ARGS	= 00000002		
COMP_SC	*****	X	04	PROCESS_ERR	*****	X	04
COND_T	00000129	RG	04	PROCNAME	0000000C	R	03
COND1_C	= 00000000			QUAD	= 00000008	G	
COND1_CLEANUP	0000012A	RG	04	RECV	*****	X	04
COND1_E	0000008E	R	03	REST_REGS	*****	X	04
COND1_H	00000036	RG	03	SAVE_REGS	*****	X	04
COND1_T	0000001B	R	03	SSS_NONEXPR	*****	X	04
COND1_TAB	00000037	R	03	SSS_NORMAL	*****	X	04
COND2	0000012B	RG	04	SUCCESS	*****	X	04
COND2_C	= 00000000			SYSSCMKRNL	*****	GX	04
COND2_CLEANUP	0000012C	RG	04	SYSSFAO	*****	X	04
COND2_E	000000F4	R	03	SYSSHIBER	*****	GX	04
COND2_H	000000B5	RG	03	SYSSRESUME	*****	GX	04
COND2_T	0000009E	R	03	SYSSSETPRN	*****	GX	04
COND2_TAB	000000B6	R	03	SYSSSETPRV	*****	GX	04
COND3	0000012D	RG	04	SYSSUSPND	*****	GX	04
COND3_C	= 00000014			SYSSWAKE	*****	GX	04
COND3_CLEANUP	0000012E	RG	04	TESTNUM	*****	X	04
COND3_H	000000F4	RG	03	TEST_MOD_NAME	00000000	RG	02
COND3_T	000000F4	R	03	TEST_MOD_NAME_D	00000009	R	02
COND3_TAB	000000F4	R	03	TEST_MOD_SUCC	*****	X	04
COND4	= 0000012F	RG	04	THISPID	00000008	R	03
COND4_C	= 00000014			TMD_ADDR	*****	X	04
COND4_CLEANUP	00000130	RG	04	TM_CLEANUP	00000125	RG	04
COND4_H	000000F5	RG	03	TM_SETUP	00000000	RG	04
COND4_T	000000F5	R	03	VERIFY	0000021D	RG	04
COND4_TAB	000000F5	R	03	VERIFYX	000003E2	R	04
COND5	00000131	RG	04	VFY_CLEANUP	000003E3	RG	04
COND5_C	= 00000014			WORD	= 00000002	G	
COND5_CLEANUP	00000132	RG	04	WRITE_MSG2	*****	X	04
COND5_H	000000F6	RG	03				
COND5_T	000000F6	R	03				
COND5_TAB	000000F6	R	03				
CTL\$GE_PHD	*****	X	04				
DESC	= 00000010	G					
EFLAG	*****	X	04				
EXPV	*****	X	04				
FAO_DESC	*****	X	04				
FAO_LEN	*****	X	04				

```
+-----+
! Psect synopsis !
+-----+
```

PSECT name

	Allocation	PSECT No.	Attributes																	
: ABS .	000000000	(0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE						
\$ABSS	000000000	(0.)	01 (1.)	NOPIC	USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE						
RODATA	00000071	(113.)	02 (2.)	NOPIC	USR	CON	REL	LCL	NOSHR	NOEXE	RD	NOWRT	NOVEC	LONG						
RWDATA	000000F7	(247.)	03 (3.)	NCPIIC	USR	CON	REL	LCL	NOSHR	NOEXE	RD	WRT	NOVEC	LONG						
SATSSS44	000003E4	(996.)	04 (4.)	NOPIC	USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE						

```
+-----+
! Performance indicators !
+-----+
```

Phase

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.08	00:00:00.32
Command processing	136	00:00:00.71	00:00:01.65
Pass 1	232	00:00:05.75	00:00:13.47
Symbol table sort	0	00:00:00.45	00:00:00.99
Pass 2	105	00:00:01.57	00:00:03.44
Symbol table output	13	00:00:00.08	00:00:00.08
Psect synopsis output	2	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	519	00:00:08.68	00:00:19.98

The working set limit was 1200 pages.

29938 bytes (59 pages) of virtual memory were used to buffer the intermediate code.

There were 20 pages of symbol table space allocated to hold 299 non-local and 34 local symbols.

508 source lines were read in Pass 1, producing 23 object records in Pass 2.

34 pages of virtual memory were used to define 25 macros.

```
+-----+
! Macro library statistics !
+-----+
```

Macro library name

Macro library name	Macros defined
\$255\$DUA28:[SHRLIB]UETP.MLB;1	8
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	1
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	13
TOTALS (all libraries)	22

605 GETS were required to define 22 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:\$SATSSS44/OBJ=OBJ\$:\$SATSSS44 MSRC\$:\$SATSSS44/UPDATE=(ENH\$:\$SATSSS44)+EXECML\$:/LIB+SHRLIB\$:\$UETP/LIB

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SATSSS46
LIS

SATSSS43
LIS

SATSSS45
LIS

SATSSS41
LIS

SATSSS42
LIS